

# Union Electric Company (Ameren Missouri) Power Plant Name: Osage Electric Generation and Emissions in 2011

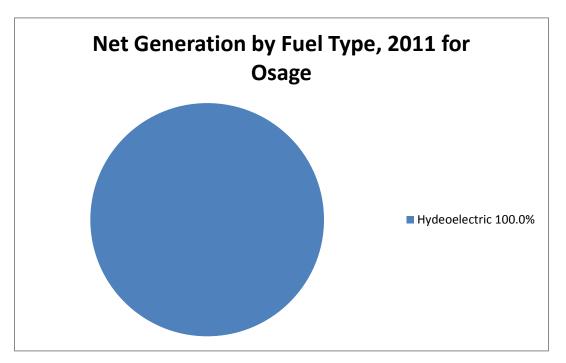
### **Generation Tables**

	Fuel Consumption, MMBTUs	Percent o	f Total	Net Electric Power Generated, MWh	Percent o	of Total
Non-renewable sources						
Coal						
Natural Gas						
Petroleum						
Nuclear						
Other						
Non-renewable total						
Renewable sources						
Biomass						
Hydroelectric	4,849,711	100.0%	100.0%	499,147	100.0%	100.0%
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total	4,849,711	100.0%	100.0%	499,147	100.0%	100.0%
Grand total	4,849,711		100.0%	499,147		100.0%

Fuel Type	<b>Physical Units</b>	<b>Number of Units</b>
Hydroelectric	MMBTU	4,849,711

4/17/2013







Power Plant Nameplate information for Osage

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
Osage		All Operating Generators			832.0
Osage	Miller	1	Hydroelectric Turbine (includes turbines associated with delivery of water by pipeline)	Operating - in service	110.0
Osage	Miller	2	Hydroelectric Turbine (includes turbines associated with delivery of water by pipeline)	Operating - in service	110.0
Osage	Miller	3	Hydroelectric Turbine (includes turbines associated with delivery of water by pipeline)	Operating - in service	110.0
Osage	Miller	4	Hydroelectric Turbine (includes turbines associated with delivery of water by pipeline)	Operating - in service	110.0
Osage	Miller	5	Hydroelectric Turbine (includes turbines associated with delivery of water by pipeline)	Operating - in service	110.0
Osage	Miller	6	Hydroelectric Turbine (includes turbines associated with delivery of water by pipeline)	Operating - in service	110.0
Osage	Miller	7	Hydroelectric Turbine (includes turbines associated with delivery of water by pipeline)	Operating - in service	86.0
Osage	Miller	8	Hydroelectric Turbine (includes turbines associated	Operating - in service	86.0



	with delivery of water	
	by pipeline)	



## Emissions from Electricity Generated in 2011: Osage

	CO2	Carbon	Methane	Nitrogen
	Equivalent	Dioxide (CO2)	(CH4)	Dioxide (NO2)
	(TONS)	(TONS)	(TONS)	(TONS)
Osage	0	0	0	0

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
		(10116)	(10116)
Osage	0	0.0000	0.0000

### Identified Flue Gas Desulfurization (FGD) controls installed on Osage power plant

Plant	Control Equipment	<b>Sorbent Type</b>	
	No FGD Controls Installed		

### Identified Flue Gas Particulate (FGP) controls installed on Osage power plant

Plant	Control Equipment	
	No FGP Controls Installed	



#### **Notes:**

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy http://www.eia.gov/electricity/data/eia923

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy http://www.eia.gov/electricity/data/eia860/index.html

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011, http://www.epa.gov/climateleadership/documents/emission-factors.pdf